

NAIP 2010: Orthoimagery (1-Meter GSD)

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Identification Information:

Citation:

Citation Information:

Originator: USDA-FSA-APFO Aerial Photography Field Office
Publication Date: 20101201
Title:
NAIP 2010: Orthoimagery (1-Meter GSD)
Geospatial Data Presentation Form: vector digital data
Publication Information:

Publication Place: Salt Lake City, Utah
Publisher: USDA-FSA-APFO Aerial Photography Field Office

Online Linkage:

Description:

Abstract:

This data set contains imagery from the National Agriculture Imagery Program (NAIP). NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition. The tiling format of NAIP imagery is based on a 3.75' x 3.75' quarter quadrangle with a 300 meter buffer on all four sides. NAIP quarter quads are formatted to the UTM coordinate system using NAD83. NAIP imagery may contain as much as 10% cloud cover per tile.

Purpose:

NAIP imagery is available for distribution within 60 days of the end of a flying season and is intended to provide current information of agricultural conditions in support of USDA farm programs. For USDA Farm Service Agency, the 1 meter GSD product provides an ortho image base for Common Land Unit boundaries and other data sets. The 1 meter NAIP imagery is generally acquired in projects covering full states in cooperation with state government and other federal agencies who use the imagery for a variety of purposes including land use planning and natural resource assessment. With an annual cycle, NAIP is also used for disaster response often providing the most current pre-event imagery.

Time Period of Content

Time Period Information:

Single Date/Time:

Calendar Date: 20100604

Currentness Reference:

ground condition

Status:

Progress: Complete
Maintenance and Update Frequency: Irregular

Spatial Domain:

Bounding Coordinates:

West Bounding Coordinate: -115.096023
East Bounding Coordinate: -108.858762
North Bounding Coordinate: 37.102058
South Bounding Coordinate: 31.255494

Keywords:

Theme:

Theme Keyword: NAP
Theme Keyword: Aerial Photo
Theme Keyword: Ortho
Theme Keyword: Imagery

Place:

Place Keyword: AZ
Place Keyword: Arizona
Place Keyword: USA

Access Constraints: There are no limitations for access.

Use Constraints:

Imagery may be replaced to address defects found in a small number of products through quality assurance processes. Imagery containing defects that require the acquisition of new imagery, such as excessive cloud cover, specular reflectance, etc., will not be replaced within a NAIP project year.

Point of Contact:

Contact Information:

Contact Organization Primary:

Contact Organization: Arizona State Land Department - Arizona Land Resource Information System

Contact Address:

Address Type: mailing and physical address
Address:
1616 W. Adams

City: Phoenix
State or Province: AZ
Postal Code: 85007
Country: USA

Contact Voice Telephone: (602) 542-2606
Contact Facsimile Telephone: (602) 542-2600
Contact Electronic Mail Address: gdsala@land.az.gov
Hours of Service: Monday - Friday, 8am-5pm, MST

Browse Graphic:

Browse Graphic File Name: None
Browse Graphic File Description:
None
Browse Graphic File Type: None

Native Data Set Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.1.0.780

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Data Quality Information:

Logical Consistency Report:

NAIP 3.75 minute tile file names are based on the USGS quadrangle naming convention.

Completeness Report:

None

Positional Accuracy:

Horizontal Positional Accuracy:

Horizontal Positional Accuracy Report:
FSA Digital Orthophoto Specs.

Lineage:

Source Information:

Source Citation:

Citation Information:

Originator: USDA-FSA-APFO Aerial Photography Field Office
Publication Date: 20101201
Geospatial Data Presentation Form: remote-sensing image

Type of Source Media: Unknown

Source Time Period of Content:

Time Period Information:

Single_Date/Time:

Calendar_Date: 20100604

Source_Currentness_Reference:

Aerial Photography Date for aerial photo source.

Source_Citation_Abbreviation:

Georectified Image

Source_Contribution:

Digital Georectified Image.

Process_Step:

Process_Description:

Digital frames captured with a ZI Intergraph DMC with a footprint of 7680 x 13824 pixels were used to create Digital Orthophoto Quarter Quadrangles. DMC Serial Numbers 114, 137, and 142 installed in a Piper Cheyenne I, Twin Cessna Turbo Charged 401, and Rockwell 695 Turbo Commander; M400CW, N380W, and N9812S were used to fly. Calibration reports are on file with the USDA. 12 micron frames were captured at eight bits with 2.5 - 2.7 foot pixel using Windows Server 2003; ZI Mission Planning 1.3; Intergraph GeoMedia 6.0; DMC Image Analyst 5.2; DMC Post Processing 5.4; ZI Image Viewer 1.0; Microsoft Access; Microsoft Excel; Delorme XMap 4.5 and Adobe Photoshop. Flights ASL was 18,000-20,000 or 28,900 feet. The state was flown in blocks for efficiency of capture and in order to accommodate the different evolutions throughout the state. Flight planning software includes Delorme 4.5; Delorme Photo Flight 2.1.6; ZI Inflight 1.3; ZI Imageview 1.2; ArcView 3.2; Microsoft Access; and POGAV 2.1.1.

Ground control points were collected by Photo Science crews. External Orientation files created from ASPRS data in Applanix POSPac VMS Version 5.2 and are rectified using ImageStation Project Manager 5.2; Intergraph GeoMedia 6.0; and Intergraph OrthoPro 5.2. Extensive Quality Control checks are performed on the data throughout the production process. Processed RAW Frames are checked for spectral compliance. Rectified frames are checked for spatial accuracy and also spectral compliance. DOQs are thoroughly checked for spectral and spatial accuracy in Irs/C and Adobe Photoshop. CCMs are checked for overall spectral compliance and spatial accuracy in ArcGIS. Seamline shapefiles are checked for gaps, slivers, overlaps and multipart features by building topology in ArcGIS. Ground control points are read off of rectified frames as a double-check and final DOQs are used to calculate RMSE values in MicroStation and Excel. Frames are rectified with 10 meter NEds in Intergraph OrthoPro. This surface is checked for errors at the mosaicked DOQ level. If any areas presented problems, they are noted in a Digital Elevation Model Errors ASCII text file.

Process_Date: 20101201

Process_Step:

Process_Description:

A compressed version of the MAIP TIFF imagery was created on behalf of the Arizona State Land Department by the US Forest Service (Albuquerque) using Lizard Tech GeoExpress software. The output resulted in 3-band MrSID (Gen III) files with a compression ratio of 1:15.

Process_Date: Dec 2010

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Spatial_Data_Organization_Information:

Indirect_Spatial_Reference_Method:

Cochise County, AZ

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 7629

Raster_Object_Information:

Raster_Object_Type: Pixel

Row_Count: 1

Column_Count: 1

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 12

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: -111.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.001024

Ordinate_Resolution: 0.001024

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: naip_index

Attribute:

Attribute_Label: FID

Attribute_Definition:

Internal feature number.

Attribute_Definition_Source:

ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition:

Feature geometry.

Attribute_Definition_Source:

ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Coordinates defining the features.

Attribute:

Attribute_Label: AREA

Attribute:

Attribute_Label: PERIMETER

Attribute:

Attribute_Label: ST

Attribute:

Attribute_Label: QQNAME

Attribute:

Attribute_Label: QKEY

Attribute:

Attribute_Label: QUADRANT

Attribute:

Attribute_Label: APFONAME

Attribute:

Attribute_Label: GNIS

Attribute:

Attribute_Label: DY

Attribute:

Attribute_Label: MY

Attribute:

Attribute_Label: SY

Attribute:

Attribute_Label: DX

Attribute:

Attribute_Label: MX

Attribute:

Attribute_Label: SX

Attribute:

Attribute_Label: OLAT

Attribute:

Attribute_Label: OLONG

Attribute:

Attribute_Label: ArcKey

Attribute:

Attribute_Label: Band

Attribute:

Attribute_Label: USGSD

Attribute:

Attribute_Label: Qdmt

Attribute:

Attribute_Label: UTM

Attribute:

Attribute_Label: Res

Attribute:

Attribute_Label: SrcimgDate

Attribute:

Attribute_Label: VerDate

Attribute:

Attribute_Label: FileName

Overview_Description:

Entity_and_Attribute_Overview

32-bit pixels, 4 band color (RGBIR) values 0 - 255

Entity_and_Attribute_Detail_Citation:

None

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Arizona State Land Department - Arizona Land Resource Information System

Contact_Position: GIS Data Transfer Specialist

Contact_Address:

Address_Type: mailing and physical address

Address:

1616 W. Adams

City: Phoenix

State_or_Province: AZ

Postal_Code: 85007

Country: USA

Contact_Voice_Telephone: (602) 542-2606

Contact_Facsimile_Telephone: (602) 542-2600

Contact_Electronic_Mail_Address: gisdata@land.az.gov

Hours_of_Service: Monday - Friday, 8am-5pm, MST

Resource_Description: Downloadable Data

Distribution_Liability:

In no event shall the creators, custodians, or distributors

of this information be liable for any damages arising out

of its use (or the inability to use it).

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: GeoTIFF - Georeferenced Tagged Image File Format

Format_Information_Content:

Multispectral 4-band

Transfer_Size: 0.990

Digital_Transfer_Option:

Offline_Option:

Offline_Media: CD-ROM

Recording_Format: ISO 9660 Mode 1 Level 2 Extensions

Digital_Form:

Digital_Transfer_Information:

Format_Name: MrSID Gen II Compression (Ratio 1:15)

Format_Information_Content:

3-Band

Transfer_Size: 0.990

Fees: Contact ALRS for more information

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Metadata_Reference_Information:

Metadata_Date: 20110128

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USDA-FSA-APFO Aerial Photography Field Office

Contact_Address:

Address_Type: mailing and physical address

Address:

2222 West 2300 South

City: Salt Lake City

State_or_Province: Utah

Postal_Code: 84119-2020

Country: USA

Contact_Voice_Telephone: 801-844-2922

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>

Profile_Name: ESRI Metadata Profile

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